

ABSTRACT

The method for generating radicals comprises:

feeding F_2 gas or a mixed gas of F_2 gas and an inert gas
into a chamber of which the inside is provided with a carbon
5 material,

supplying a carbon atom from the carbon material by
applying a target bias voltage to the carbon material, and
thereby

generating high density radicals,

10 wherein the ratio of CF_3 radical, CF_2 radical and CF
radical is arbitrarily regulated by controlling the target bias
voltage applied to the carbon material while measuring the
infrared absorption spectrum of radicals generated inside the
chamber.